Exploring Aeronautics			
2005 Mathematics			
Model Content Standards			
Colorado Mathematics			
Grades 5-8			
Activity/Lesson	**State**	**Standards**	
Fundamentals of Aeronautics (145-176)	CO	MA.5-8.5.3	read and interpret various scales including those based on number lines, graphs, and maps;
Wings(177-208)	CO	MA.5-8.4.5	solve problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions; and
Wings(177-208)	CO	MA.5-8.5.1	estimate, use, and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison;
Tools of Aeronautics(257-326)	CO	MA.5-8.2.5	solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, graphical) and a variety of tools (physical materials, calculators, computers).
Tools of Aeronautics(257-326)	CO	MA.5-8.3.5	determine probabilities through experiments or simulations;
The Tools of Aeronautics	CO	MA.5-8.2.5	solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, graphical) and a variety of tools (physical materials, calculators, computers).
The Tools of Aeronautics	CO	MA.5-8.3.5	determine probabilities through experiments or simulations;
The Resource Center	CO	MA.5-8.5.3	read and interpret various scales including those based on number lines, graphs, and maps;
Science of Flight	CO	MA.5-8.2.5	solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, graphical) and a variety of tools (physical materials, calculators, computers).
Science of Flight	CO	MA.5-8.3.4	formulate hypotheses, draw conclusions, and make convincing arguments based on data analysis;
Science of Flight	CO	MA.5-8.3.5	determine probabilities through experiments or simulations;
Integrating with Aeronautics	CO	MA.5-8.1.4	use the relationships among fractions, decimals, and percents, include the concepts of ratio and proportion, in problem-solving situations;
Integrating with Aeronautics	CO	MA.5-8.2.1	represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation;
Integrating with Aeronautics	CO	MA.5-8.4.3	apply the concepts of ratio, proportion, and similarity in problem-solving situations;

Integrating with Aeronautics	CO	MA.5-8.5.1	estimate, use, and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison;
Integrating with Aeronautics	CO	MA.5-8.5.2	estimate, make, and use direct and indirect measurements to describe and make comparisons;
Scientific Method(124-144)	CO	MA.5-8.3.4	formulate hypotheses, draw conclusions, and make convincing arguments based on data analysis;